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Needs, quickly and Conveniently  
MENU 3 JAN 25 Annual Reload of MEDLINE database  
MENU 4 FEB 15 STN Express Maintenance Release, Version 8.4.2, is  
Now Available for Download  
MENU 5 FEB 16 Derwent World Patents Index (DWPI) Revises Indexing  
of Author Abstracts  
MENU 6 FEB 16 New PACIA Display Formats Added to CIPHER and PCTOBER  
MENU 7 FEB 16 CIPHER and CIPHERMAN Enriched with New Content  
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MENU 8 FEB 16 CIPHER Adding Its Own IPC codes and Author's Email  
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MENU 10 APR 02 ESDS/MPLA Application and Priority number formats  
enhanced  
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Rolling through U.S. Patent Codes  
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Coverage back to 1940  
MENU 14 APR 01 CAC/CLUGS CLUGS Display Streamlined with Removal of  
Free-IEC 8 Data Fields  
MENU 15 APR 01 Su-QOL World Traditional Medicine (WTM) Patents Now  
Available in CIPHER  
MENU 16 APR 07 MEDLINE Coverage is Extended Back to 1947  
  
NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,  
AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.  
  
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\*\*\*\*\* STN Columbus \*\*\*\*\*

chain bonds :  
18-19 20-21  
ring/chain bonds :  
5-7 1-3 8-9 9-10 10-11 11-12 12-20  
ring bonds :  
1-2 3-4 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17  
exact/room bonds :  
1-2 3-4 2-3 3-4 4-5 5-6 5-7 7-8 8-9 9-10 10-11 11-12 12-13 12-17  
13-14 14-15 15-16 16-17 18-19 19-20 20-21  
  
match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS  
20:CLASS 21:CLASS

L1 STRUCTURE UPLOADED

=> d  
L1 HAS NO ANKERS  
L1 STR



Structure attributes may be viewed using STN Express query preparation:

=> g ll sm  
SAMPLE SEARCH INITIATED 12/15/15 FILE 'REGISTRY'  
SAMPLE FORNER SEARCH COMPLETED - 493452 TO 176945  
2.4N PROCESSED 2000 ITERATIONS 0 ANKERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00(0)

FILE 'HOME' ENTERED AT 12:51:41 ON 04 JUN 2010

	SINCE FILE	TOTAL
=> File reg		
COST IN U.S. DOLLARS	ENTRY	SESSION
FILE ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 12:51:46 ON 04 JUN 2010  
FILE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE USE "HELP USAGE/TERMS" FOR DETAILS  
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Property values tagged with IC are from the SIC/VINTI data file  
provided by InfoChem.

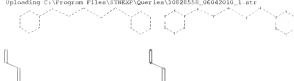
STRUCTURE FILE UPDATED: 2 JUN 2010 HIGHEST PW 1224851-61-1  
DICTIONARY FILE UPDATED: 2 JUN 2010 HIGHEST PW 1224851-61-1  
  
How CAS Information Use Policies, enter HELP USAGE/TERMS for details.  
TSCA INFORMATION HOW CURRENT THROUGH January 6, 2010.

Please note that search-term pricing does apply when  
conducting SMARTSEARCH searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stnqen/stnqen/properties.html>

=> Uploading C:\Program Files\STNEXP\Queries\10828558\_06042010\_1.str

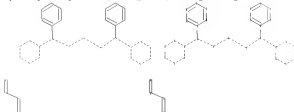


chain nodes :  
18 21  
ring nodes :  
1 2 3 4 5 6 12 13 14 15 16 17  
ring/chain nodes :  
7 8 9 10 11 19 20

FULL FILE PRODUCTIONS: ONLINE \*\*INCOMPLETE\*\*  
BATCH \*\*INCOMPLETE\*\*  
PROCESSED ITERATIONS: 962719 TO 990714  
PROCESSED ANKERS: 0 TO 0

L2 0 SEA SES DAN L1

=> Uploading C:\Program Files\STNEXP\Queries\10828558\_06042010\_2.str



chain nodes :  
18 21  
ring nodes :  
1 2 3 4 5 6 12 13 14 15 16 17 22 23 24 25 26 27 28 29 30 31  
32 33  
ring/chain nodes :  
7 8 9 10 11 19 20  
chain bonds :  
7-22 11-23 18-19 20-21  
ring/chain bonds :  
5-7 1-3 8-9 9-10 10-11 11-12 19-20  
ring bonds :  
1-2 3-4 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17 22-24  
22-25 23-29 23-33 24-25 25-26 26-27 27-28 29-30 30-31 31-32 32-33  
exact/room bonds :  
1-2 3-4 2-3 3-4 4-5 5-6 5-7 7-8 8-9 9-10 10-11 11-12 12-13 12-17  
13-14 14-15 15-16 16-17 18-19 19-20 20-21  
exact bonds :  
7-22 11-23  
normalized bonds :  
22-24 22-28 23-29 23-33 24-25 25-26 26-27 27-28 29-30 30-31 31-32 32-33

Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS  
 20:CLASS 21:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom  
 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom

#### L3 STRUCTURE UNLOADED

==> d  
 L3 HAS NO ADDRESS  
 L3 STB

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STB Express query preparation.

==> n 13 608  
 SMPLE SEARCH INITIATED 13:45:15 FILE 'REGISTRY'  
 SMPLE SCHEM SEARCH COMPLETED - 6:57 TO 17:04:24

1 3M PROCESSED 3000 ITERATIONS 0 ADDRESS  
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
 SEARCH TIME: 00:00:01

FILE FILE PRODUCTIONS: ONLINE \*\*COMPLETED\*\*  
 BATCH \*\*COMPLETED\*\*  
 PRODUCTION ITERATIONS: 120611 TO 123619 0  
 PRODUCTION ADDRESS: 0 TO 0

L4 0 SEA SSS SAN L3

==> n 13 full  
 FULL SEARCH INITIATED 13:45:15 FILE 'REGISTRY'  
 FULL SCHEM SEARCH COMPLETED - 12:38:15 TO 17:04:24

100 0A PROCESSED 1227365 ITERATIONS 18 ADDRESS  
 SEARCH TIME: 00:00:08

L5 10 SEA SSS FUL L3

==> d 15 1-18

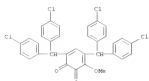
L5 ANSWER 1 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
 RM 120611-91-7 REGISTRY  
 RD Entered STN: 08 Jun 2008  
 CH Cyclo[2,2,2]octa-5,7-diene-2,3-dione,  
 1,1-bis(4-methoxyphenyl)-4-methoxy-9-phenyl-, (1R,4R)- (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C13 H22 O4  
 LC STB Files: CA, CASUS, CASREACT  
 Other Sources  
 Database: ChemSpider (Chondro, Inc.)

Absolute stereochemistry.



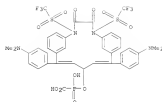
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L5 ANSWER 2 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
 RM 910475-16-4 REGISTRY  
 RD Entered STN: 22 Dec 2005  
 CH 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(bis(4-chlorophenyl)methyl)-3-methoxy-  
 (CA INDEX NAME)  
 MF C13 H12 Cl4 O5  
 RD CA  
 LC STB Files: CA, CASUS, CASREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

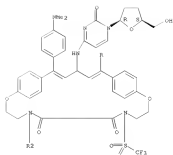
1 REFERENCES IN FILE CA (1997 TO DATE)  
 1 REFERENCES IN FILE CASUS (1997 TO DATE)  
 L5 ANSWER 3 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
 RM 449903-84-0 REGISTRY  
 RD Entered STN: 26 May 2005  
 CH Phosphinecarboxylic acid, 1-[[11,15-bis(4-(dimethylamino)phenyl)-3,4-dioxo-2,5-bis(trifluoromethylsulfonyl)-2,5-diazatetraylo[14.3.1.18,10]nonocose-1(20),6,8,10(21),11,14,16,18-octan-13-yl]oxy]-1-hydroxy-, 1-oxide (CA INDEX NAME)  
 (S)-SB-603618 hydro-  
 CH Phosphinecarboxylic acid, 11,15-bis[4-(dimethylamino)phenyl]-3,6-dioxo-2,5-bis(trifluoromethylsulfonyl)-2,5-diazatetraylo[14.3.1.18,10]nonocose-1(20),6,8,10(21),11,14,16,18-octan-13-yl]oxy]-1-hydroxy-, 1-oxide (PCI)  
 MF C38 H53 F6 N4 O11 P S2  
 CI  
 RD CA



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L5 ANSWER 4 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
 RM 649736-77-2 REGISTRY  
 RD Entered STN: 04 May 2005  
 CH 21,20-Dioxo-14,17-diazatetraylo[19.2.2.27,10]heptocose-2,5,7,9,21,23,24,26-octan-15,16-dione, 4-[[17,2-dihydro-3-oxo-1-[[20,10]-tetrahydro-1-(hydroxymethyl)-2-furanyl]-4-pyrimidinyl]amino]-2,6-bis[6-(dimethylamino)phenyl]-14,17-bis(trifluoromethylsulfonyl)- (PCI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C40 H51 F6 N7 O11 S2  
 RD CA  
 LC STB Files: CA, CASUS, TOXCENTER, USP/NF/USP

Absolute stereochemistry.  
 Double bond geometry unknown



PAGE 1-A



PAGE 2-A

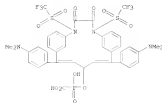
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1997 TO DATE)  
 1 REFERENCES IN FILE CASUS (1997 TO DATE)  
 L5 ANSWER 5 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
 RM 649736-78-9 REGISTRY  
 RD Entered STN: 04 May 2005  
 CH Phosphinecarboxylic acid, 1-[[11,15-bis(4-(dimethylamino)phenyl)-3,4-dioxo-2,5-bis(trifluoromethylsulfonyl)-2,5-diazatetraylo[14.3.1.18,10]nonocose-1(20),6,8,10(21),11,14,16,18-octan-13-yl]oxy]-1-hydroxy-, 1-oxide, sodium salt (1:2) (CA INDEX NAME)

```

CN  Phosphinecarboxylic acid, {[11,15-[[4-(diisopropylamino)phenoxy]-3,4-diazo-
2,5-bis[[3-(trifluoromethyl)sulfonyl]-1,2,5-
diazatricyclo[14.3.1.16,10]hepta-1(20),6,8,10(21),11,14,16,18-octaen-
13-yloxy]hydroxy-, diacid salt, 1-oxide (9CI)
MF  C38 H35 F6 N4 O11 P2  2 Na
SR  CA
LC  STD File:  CA, CAMPUS, TORCENTER, USPATFULL
CRN  [B49903-B6-Q]

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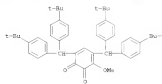
●2 No

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPUS (1907 TO DATE)

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L5 ANSWER 6 OF 18 REGISTRY COPYRIGHT 2010 ACS on STM
R 146622-25-8 REGISTRY
ED Entered STM: 29 Nov 2006
CN 3,5-cyclohexadiene, 1,2-dione, 4,6-bis[bis[4-(1,1-
diethyl-1-phenyl)ethyl]-3-methoxy- (CA INDEX NAME)
C45 H58 O3
OR CA
IR 1000-1500 cm-1 IR: 1736.616, 1736.750

```



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPUS (1907 TO DATE)

```

L5 ANWER 9 OF 18 REGISTRY COPYRIGHT 2010 ACS ON STM
L6 2E997-627 REGISTRY
L7 Entered STM: 21 sep 2000
L8 3-cyclo[2,2,2]oct-5-ene-2,3-dione, 1,5-bis(diphenylmethyl)-3-phenyl-,
L9 (1R,4R,7S)-rel- (CA INDEX NAME)
L10
L11 STEREOCENTERS
L12 NF C40 H52 O2
L13 SR CA
L14 LC STM Files: CA, CAPLUS, CASREACT

```

Relative stereochemistry



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPUS (1907 TO DATE)

```
L5 ANSWER 10 OF 18 REGISTRY COPYRIGHT 2010 ACS on STM
N5 247155-99-3 REGISTRY
RD Entered STM: 15 Nov 1999
CN 3,5-Cyclohexadiene-1,2-dione, 3,5-bis(diphenylmethyl)- (CA INDEX NAME)
MF C12 H24 O2
SR CA
LC STM File: CA_CAPLUS.CASREACT
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPUS (1907 TO DATE)

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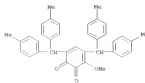
L5  ANSWER 11 OF 18  REGISTRY  COPYRIGHT 2010 ACS on SIN
ED  212055-00-5  REGISTRY
NM  Entered ETN: 01 Oct 1998
CN  3,5-cycloheptadiene-1,2-dione, 4,6-bis((diphenylmethyl)-3-methoxy- (C
INDEX NAME)
OTHER NAMES:
CN  4,6-Bis((diphenylmethyl)-3-methoxy-3,5-cycloheptadiene-1,2-dione
ME  C33 H26 O3

```

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 3 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 44622-24-7 REGISTRY  
ED Entered STN: 27 Nov 2002  
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis(4-methylphenyl)methyl]-3-methoxy-  
(CA INDEX NAME)  
MF C37 H34 O3  
SR CA  
LC STN File: CA, CARLOS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

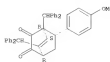
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLOS (1907 TO DATE)

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LN  ANSWER 8 OF 15: REGISTRY COPYRIGHT 2010 ACS on STM
R5  270977-64-9  REGISTRY
ED  Entered STM: 21 Sep 2000
CH  Bicyclo[2.2.2]oct-5-ene-2,3-dione,
    1,5-bis(diphenylmethyl)-7-(4-methoxyphenyl)-, (1R,4R,7R)-rel- [CA INDEX
    NAME]
FS  STRUCTURESEARCH
MF  C41 H34 O3
BL  CA
L5  270977-64-9  270977-64-9  270977-64-9  270977-64-9

```

### Relative stereochemistry



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORM-I\*\*

BR CA  
LC ETH Files: CA, CAPLOS, CARREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

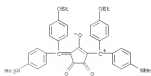
11 REFERENCES IN FILE CA (1907 TO DATE)  
11 REFERENCES IN FILE CAPUS (1907 TO DATE)

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LN  ANSWER 12 OF 18  REGISTRY  COPYRIGHT 2010 ACS on STN
LN  138171-13-8  REGISTRY
ED  Entered STN: 03 Jan 1992
CN  Methylum, [6-([dimethylamino]phenyl)[3-[[4-[dimethylamino]phenoxy](4-ethoxyphenyl)methylene]-2-hydroxy-6,5-dioxo-1-cyclopenten-1-yl](4-ethoxyphenyl)-, inner salt [3CI] [CA INDEX NAME]
MF  C19 H25 N2 O5
SR  CA
LC  STN Files: CA.CAPLUS

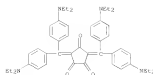
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LC STN Files: CA, CNFLUS



1 REFERENCES IN FILE CA (1903 TO DATE)

LS ANSYS 13 OF 18 REGISTRY COPYRIGHT 2010 ACS on STM  
LN 12655-61-7 P8818181K3  
KD Entered STM: 13 Apr 1990  
CN 1,2,4-Cyclopentanetrioxe, 3,5-bis[bis(4-(diethoxyphenyl)methylene)-  
CA (CAS REGD) NAME]  
MF C47 H54 N4 O3  
SR CA  
LC STM File: CA\_CASUSE



\*\*\*PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT\*\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANWER 14 OF 18 REGISTRY COPYRIGHT 2010 ACS ON STN  
R6 120351-49-9 REGISTRY

RD Entered STN: 28 Apr 1989  
CN 1,2,4-Cyclopentanetrione, 3,5-bis[4-(dimethylamino)phenyl]-(4-ethoxyphenyl)methylene- (CA INDEX NAME)

OTHER CA INDEX NAME: perchlorate (141) (CA INDEX NAME)

CN 1,2,4-Cyclopentanetrione, 3,5-bis[4-(dimethylamino)phenyl]-(4-ethoxyphenyl)methylene- (CA INDEX NAME)

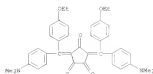
MF C39 H36 N2 O5 - Cl H O 4  
SR CA

LC STN Files: CA, CAPLUS

CN 1

CRN 120351-49-9

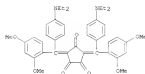
CMF C39 H36 N2 O5



CN 2

CRN 7601-90-3

CMF Cl H O 4



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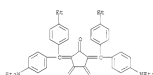
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANWER 17 OF 18 REGISTRY COPYRIGHT 2010 ACS ON STN  
R6 118890-14-2 REGISTRY

RD Entered STN: 10 Feb 1989  
CN 1,2,4-Cyclopentanetrione, 3,5-bis[4-(diethylamino)phenyl]-(4-ethoxyphenyl)methylene- (CA INDEX NAME)

MF C43 H46 N2 O3  
SR CA

LC STN Files: CA, CAPLUS



\*\*\*PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT\*\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANWER 18 OF 18 REGISTRY COPYRIGHT 2010 ACS ON STN  
R6 10366-78-5 REGISTRY

RD Entered STN: 02 Aug 1986  
CN 1,2,4-Cyclopentanetrione, 3,5-bis[4-(diethylamino)phenyl]-(4-ethoxyphenyl)methylene- (CA INDEX NAME)

MF C45 H46 N2 O3  
SR CA

LC STN Files: BELLESTEIN, CA, CAPLUS

\*file contains numerically searchable property data



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

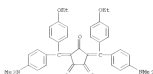
L5 ANWER 15 OF 18 REGISTRY COPYRIGHT 2010 ACS ON STN  
R6 120351-49-9 REGISTRY

RD Entered STN: 28 Apr 1989  
CN 1,2,4-Cyclopentanetrione, 3,5-bis[4-(diethylamino)phenyl]-(4-ethoxyphenyl)methylene- (CA INDEX NAME)

SR 120351-49-9  
MF C39 H36 N2 O5  
CI COM

LC STN Files: CA, CAPLUS

SR CA



\*\*\*PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT\*\*\*

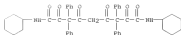
2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANWER 16 OF 18 REGISTRY COPYRIGHT 2010 ACS ON STN  
R6 118890-15-2 REGISTRY

RD Entered STN: 10 Feb 1989  
CN 1,2,4-Cyclopentanetrione, 3,5-bis[4-(diethylamino)phenyl]-(2,4-dimethoxyphenyl)methylene- (CA INDEX NAME)

MF C43 H46 N2 O7  
SR CA

LC STN Files: CA, CAPLUS



\*\*\*PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT\*\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

>> file copies

COST 28 U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

231.79

TOTAL

231.01

FILE "CAPLUS" ENTERED AT 12:55:37 ON 04 JUN 2010

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FILE COVERS 1907 - 4 Jun 2010 VOL 152 ISS 24

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USPTO MANUAL OF CLASSIFICATION THESAURUS ISSUE DATE: Apr 2010

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>> d.hin

FILE "R6" ENTERED AT 12:01:01 ON 04 JUN 2010

FILE "CAPLUS" ENTERED AT 12:51:56 ON 04 JUN 2010

L1 FUNCTIONING UNLOADED

L2 0 0 11 88M

L3 FUNCTIONING UNLOADED

L4 0 0 10 88M

L5 18 0 13 88M

→ a 15  
 L6 22 15  
 → d 16 (b) (i) sbs hitstr 1-22

L6 NUMBER 3 OF 23 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 20091251994 CAPLUS  
 DOCUMENT NUMBER: 151148286  
 TITLE: 1,2-dipolar cycloaddition reactions of carbonyl ylides with 1,2-diones: synthesis of novel spiro bicyclopentenes. (Excerpt to document cited in 001375153203)  
 AUTHOR(S): Nair, Vijay Sheela, K. C.; Sethumadhavan, D.; Dhanya, R.; Balu, Vijay P.  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (ICR), Trivandrum, 695 039, India  
 SOURCE: Tetrahedron (2009), 65(45), 9505  
 CODEN: TETRAH 1581 0040-4020  
 PUBLISHER: Elsevier Ltd  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB On page 4177, in Scheme 5, the structures labeled 10c-c and 11a-c, were mislabeled 1j. Hence, and should be reversed.  
 IT 212055-89-5 CAPLUS  
 RI: RCT (Reactant); RACT (Reactant or reagent)  
 (1,2-dipolar cycloaddition reactions of carbonyl ylides with 1,2-diones)  
 RN 212055-89-5 CAPLUS  
 CH 1,5-Cyclodisene-1,2-dione, 4,6-bis(diphenylethyl)-3-methoxy- (CA INDEX NAME)



L6 NUMBER 2 OF 23 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 20091250941 CAPLUS  
 DOCUMENT NUMBER: 149457522  
 TITLE: Construction of heterocycle with 1,4-dipolar cycloaddition of guanine-oxazone with various dipolarophiles  
 AUTHOR(S): Nair, Vijay Sheela, R.; Suresh, R. (noted)  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (ICR), Trivandrum, 695 039, India  
 SOURCE: Tetrahedron (2009), 65(16), 3057-3377  
 CODEN: TETRAH 1581 0040-4020  
 PUBLISHER: Elsevier Ltd  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 149:517512  
 GI

(stereoselective preparation of pyridopolimines and oxazopolimines via 1,4-dipolar cycloaddition of guanine-oxazone with dipolarophiles)  
 RN 212055-89-5 CAPLUS  
 CH 1,5-Cyclodisene-1,2-dione, 4,6-bis(diphenylethyl)-3-methoxy- (CA INDEX NAME)



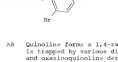
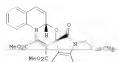
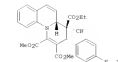
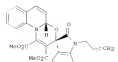
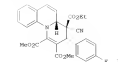
OS CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)  
 REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 NUMBER 3 OF 23 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 2009184509 CAPLUS  
 DOCUMENT NUMBER: 147195110  
 TITLE: Product class 2: benzo-1,2-quinolones  
 AUTHOR(S): Nair, V.; Radhakrishnan, K. V.  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (ICR), Trivandrum, 695039, India  
 SOURCE: Advances in Synthesis (2006), 26, 187-215  
 CODEN: ASCT29  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB A review of methods to prepare benzo-1,2-quinolones and their applications to organic synthesis  
 IT 212055-89-5 CAPLUS  
 RI: RCT (Reactant); RACT (Reactant or reagent)  
 (Review preparation of benzoquinolones with applications to organic synthesis)  
 RN 212055-89-5 CAPLUS  
 CH 1,5-Cyclodisene-1,2-dione, 4,6-bis(diphenylethyl)-3-methoxy- (CA INDEX NAME)



OS CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
 REFERENCE COUNT: 161 THERE ARE 161 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 NUMBER 4 OF 23 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 20091251414 CAPLUS  
 DOCUMENT NUMBER: 144125417  
 TITLE: Sterically encumbered regioselective cycloaddition of o-allylcarbene-derived bis(oxazolones) with



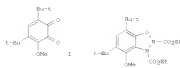
AB Oxidation forms a 1,4-dicarbonyl with di-Me acetylenecarboxylate, which is trapped by various dipolarophiles to yield a variety of pyridopolimines and oxazopolimines derivative, e.g. I and II  
 IT 212055-89-5 CAPLUS  
 RI: RCT (Reactant); RACT (Reactant or reagent)

1,2-Benzoquinolones  
 Varma, R.; Suresh, V. R.; Suresh, K.; Suresh, C.; S.  
 CORPORATE SOURCE: Organic Chemistry Section, Chemical Sciences Division, Regional Research Laboratory (ICR), Trivandrum, 695 039, India  
 SOURCE: Tetrahedron Letters (2006), 47(6), 917-921  
 CODEN: TETRAH 1581 0040-4020  
 PUBLISHER: Elsevier B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 144:254072  
 AB A o-allylcarbene-derived bis(oxazolone) acts as the 3c component in a cycloaddition reaction with two moles of 3,5-di-tert-butyl-1,2-benzoquinone in the [2+1] manner leading to macrocycles with a benzenoid moiety. A thorough rationalization of the results suggested a sterically encumbered regioselective pathway, which gives sterically crowded products. The mol structure of one of the products is determined and the resp. crystal data are deposited.  
 IT 247155-99-2 CAPLUS  
 RI: RCT (Reactant); RACT (Reactant or reagent)  
 (Sterically encumbered regioselective cycloaddition of o-allylcarbene-derived bis(oxazolone) with ortho-benzoquinones)  
 RN 247155-99-2 CAPLUS  
 CH 1,5-Cyclodisene-1,2-dione, 3,5-bis(diphenylethyl)- (CA INDEX NAME)

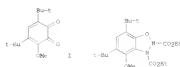


REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 NUMBER 5 OF 23 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 2009180647 CAPLUS  
 DOCUMENT NUMBER: 144122866  
 TITLE: Reaction of Huisgen 1,2,3-triazole with 1,2-Benzoquinones and Isotans: Expedient Synthesis of Dihydro-1,2,3-benzoxadiazepines and Spirooxadiazepines  
 AUTHOR(S): Nair, Vijay Sheela, A. T.; Virendra, A. S.; Suresh, R.; Suresh, C.  
 CORPORATE SOURCE: Organic Chemistry Section, Chemical Sciences Division, Regional Research Laboratory (ICR), Trivandrum, 695 039, India  
 SOURCE: Organic Letters (2005), 7(23), 5139-5142  
 CODEN: ORLETT 1581 0040-4020  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 144:22866  
 GI



II



AB The zwitterionic intermediate generated from dialkyl azodicarboxylate and triphenylphosphine on reaction with 3-methoxy-1,2-benzoxazine afforded dihydropyridine-1,2-benzoxazine. E.g., reaction of triphenylphosphine, DEAD, and 3-methoxy-1,2-benzoxazine I gave 3A dihydropyridine-1,2-benzoxazine II. N-Substituted isatin furnished spirooxazolinones under similar conditions.

17 21055-19-1 870471-1-4  
 RI, RCT [Reactant] [ACT (reagent or reagent)]  
 Preparation of dihydropyridine-1,2-benzoxazine and spirooxazolinones by reaction of zwitterionic intermediates generated from dialkyl azodicarboxylates and triphenylphosphine with 3-methoxy-1,2-benzoxazine and N-substituted isatin

38 21055-19-1 CAPLUS  
 CS 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[(diphenylmethyl)-3-methoxy- (CA INDEX NAME)

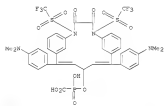


38 870475-16-4 CAPLUS  
 CS 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[4-(4-chlorophenyl)methyl]-3-methoxy- (CA INDEX NAME)

phthalimide-pentadiene conjugate, (5) converting the phthalimide to the phthalhydrazide by reaction with hydrazine to form a carrier compound according to the present invention, and (6) reacting the carrier compound with an nucleophilic moiety of the drug to form the corresponding prodrug. Alternatively the carrier can be prepared by using the halo-substituted diaryl ethylene to make the corresponding cationic leuco dyallene compound with known methods. The cationic compound then is protected by reacting with a nucleophile and coupled with the amphoteric phthalimide by palladium-catalyzed oxidation to form the protected phthalimide-pentadiene conjugate. The latter is refluxed with hydrazine to convert the phthalimide to the phthalhydrazide and acidified to give the carrier. An added aspect of the present invention relates to the use of these compounds as antiviral agents for the treatment of viral infections such as HIV and as anticancer agents for the treatment of cancers such as bowel, lung, and breast cancer.

17 84976-74-9  
 RI, SPI [Synthetic preparation], THU (Therapeutic use), BZCS (Biological study), PREP (Preparation), USE (Use)  
 Preparation of prodrugs containing chemiluminescent and photochromic moieties

38 84976-74-9 CAPLUS  
 CS Phosphorothioic acid, 2-[[11,13-bis[4-(4-methylamino)phenyl]-3,4-dioxo-2,5-bis(trifluoromethyl)butenyl]-2,5-dicyanylethylidene-3,3,16,17-tetraazabenzene-1(20),6,9,10(22),11,14,16,18-octamethylene-13-yl]oxy-1-hydroxy-, 1-oxide, sodium salt (12) (CA INDEX NAME)

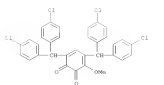


● 2 Na

11 84976-74-9  
 RI, THU (Therapeutic use), BZCS (Biological study), USE (Use)  
 Preparation of prodrugs containing chemiluminescent and photochromic moieties

38 84976-74-9 CAPLUS  
 CS 19,20-Dioxo-14,17-dioxacyclo[19.2.2.27,10]heptaoxa-2,5,7,9,21,24,26-octene-15,16-dione, 4-[[1,2-bis(4-methylamino)-1-(20,6,9,10-tetraazabenzene-13-yl)oxy]-2-oxo-1,4-epoxybutylidene]-2,5-bis(trifluoromethyl)-2,5-dicyanylethylidene-3,3,16,17-tetraazabenzene-13-yl]oxy-1-hydroxy-, 1-oxide, sodium salt (12) (CA INDEX NAME)

Absolute stereochemistry.



US CITING REF COUNT: 24 THREE APR 24 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)  
 REFERENCE COUNT: 17 THREE APR 17 CITED REFERENCES AVAILABLE FOR THIS RECORD- ALL CITATIONS AVAILABLE IN THE US FORM

16 AUGUST 5 OF 22 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 142197734  
 DOCUMENT NUMBER: 142197734  
 TITLE: Preparation of prodrugs containing chemiluminescent and photochromic moieties for selective drug delivery  
 INVENTOR(S): Miller, Rodell J.; Wu, Guo-Zhong  
 PATENT ASSIGNOR(S): SORCER  
 U.S. Pat. Appl. Publ., 199 pp. CODE: USDCO

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY AC NUM COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO	DATE
US 20050002620	A1	20050414	US 2004-828558	20040431
PRIORITY APPL. INFO.			US 2003-464546	20030423

ADDITIONAL HISTORY FOR US PATENT AVAILABLE IN LONG LISTING FORMAT  
 01

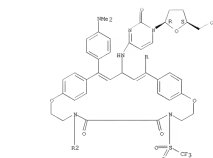
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

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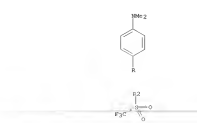
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The invention relates to a method of synthesis of a chemical compound (1) having the formula A-B-C that may serve for applications such as drug delivery, where A is a chemiluminescent moiety, B is a photochromic moiety, and C is a biol. active moiety where A-B-C may serve as a prodrug. Novel synthetic methods of the present invention to form the prodrug comprised the steps of (1) forming a benzophenone, (2) forming a diaryl ethylene, (3) attaching a nucleophilic moiety to at least one of the aryl groups of the ethylene to form a phthalimide-ethylene conjugate, (4) condensing two ethylene-phthalimide conjugates to form a

Double bond geometry unknown.



PAGE 1-A

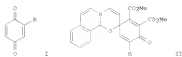


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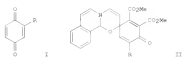
US CITING REF COUNT: 2 THREE APR 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

16 AUGUST 1 OF 22 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 2005121963 CAPLUS  
 DOCUMENT NUMBER: 143362553  
 TITLE: 1,4-Dipolar cycloaddition in organic synthesis: a facile route to isquinoline fused heterocycles  
 AUTHOR(S): Naiz, Vijay; Sreenanth, Anakkali; Ramachandran, Anilash; Narayana Pillai; Ripe, Akshat; Shankar, Naiz; Varma, Laxmi; Vijay; Sreenanth; Netter, Sankari  
 ORGANIC SOURCE: Organic Chemistry Division, Regional Research

SOURCE: Laboratory (CSIR), Tiruvandur, 630019, India  
 ARSIDD (Chennai), Co. United States (2003), (11),  
 179-180  
 CSDM: ARSIDD  
 URL: [http://www.arkat-ua.org.uk/journal/2005/111\\_banathian/1279-180.pdf](http://www.arkat-ua.org.uk/journal/2005/111_banathian/1279-180.pdf)  
 PUBLISHER: Arkat USA Inc.  
 DOCUMENT TYPE: Journal (online document file)  
 LANGUAGE: English  
 OTHER SOURCE (S): CHEMREACT 143:104253  
 GI

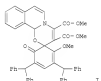


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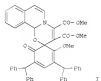


AB The three-component condensation reactions involving isouquinoline, di-Me acetylenedicarboxylate and carbonyl dipolarophiles such as *o*- and *p*-benzoquinones, *o*-q I (R = H, Me, Ph), and *N*-substituted isatin associate a one-pot synthesis of a variety of spirocyclic oxoisoquinolines, *o*-q II, via 1,4-dipolar cycloaddition.  
 17 21205-89-5  
 RI: RCT (Reactant); RACT (Reactant or reagent)  
 [preparation of spiro[cyclohexadiene-oxoisoquinoline] and benzo-fused analogs by three-component condensation of isouquinoline, acetylenedicarboxylate and quinones via dipolar cycloaddition pathway]  
 R0 21205-89-5 CAPLUS  
 CH 3,5-Cyclodisene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)

ACCESSION NUMBER: 1003:91003 CAPLUS  
 DOCUMENT NUMBER: 131401673  
 TITLE: The reaction of isouquinoline and dimethyl acetylenedicarboxylate with 1,2- and 1,6-benzoquinones: a novel synthesis of spiro[1,3]oxazino[2,9-a]isoquinolines  
 AUTHOR(S): Mair, Vijay; Sreekanth, A. R.; Siju, A. T.; Rath, Nages P.  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Tiruvandur, 630 019, India  
 SOURCE: Tetrahedron Letters (2003), 44(4), 729-732  
 CSDM: TETRAH 1289 0040-4039  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE (S): CHEMREACT 138:401673  
 GI



GI



AB The 1,4-dipolar intermediate generated by the addition of isouquinoline to di-Me acetylenedicarboxylate is trapped by 1,2- and 1,6-benzoquinones by cyclocondensation, to afford spiro[1,3]oxazino[2,9-a]isoquinoline derivatives, *o*-q I, in high yields. Crystal structure of major regioisomer of I is reported.  
 17 21205-89-5  
 RI: RCT (Reactant); RACT (Reactant or reagent)  
 [synthesis of spirooxoisoquinolines by cyclocondensation of isouquinoline and di-Me acetylenedicarboxylate with benzoquinones]  
 R0 21205-89-5 CAPLUS



08 CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITED)  
 REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 NUMBER 9 OF 22 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 2001:929115 CAPLUS  
 DOCUMENT NUMBER: 140:145940  
 TITLE: Multicomponent reactions involving zwitterionic intermediates for the construction of heterocyclic systems: one pot synthesis of amonofluoro and iminolactams

AUTHOR(S): Mair, Vijay Vinod, A. Dhanj Abhinash, N. J. Menon, Jayaraj, D.; Banthi, V.; Varma, R.; Lamsi Vajj, S.; Mathew, Sumini; Srinivas, R.  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Tiruvandur, 630 019, India  
 SOURCE: Tetrahedron (2003), 59(11), 10279-10286  
 CSDM: TETRAH 1229 0040-4020  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE (S): CHEMREACT 140:145940

AB The reaction of 1,1'-zwitterionic intermediates generated *in situ* from di-Me acetylenedicarboxylate (DMAC) and cyclohexanone with aldehydes and quinones is described. The reaction of cyclohexanone with DMAC, isocyanide and aldehydes afforded 2-aminoaniline in good yields, while the reaction with quinones gave iminolactams.  
 17 21205-89-5, 4,6-bis(diphenylmethyl)-3-methoxy-3,5-cyclodisene-1,2-dione  
 RI: RCT (Reactant); RACT (Reactant or reagent)  
 [preparation of amonofluoro and iminolactams via multicomponent reaction of aldehydes or ketones, di-Me acetylene dicarboxylate and cyclohexylidenemalonitrile]  
 R0 21205-89-5 CAPLUS  
 CH 1,5-Cyclodisene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



08 CITING REF COUNT: 44 THERE ARE 44 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITED)  
 REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT  
 L6 NUMBER 9 OF 22 CAPLUS COPYRIGHT 2010 ACS on STM

CH 3,5-Cyclodisene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



08 CITING REF COUNT: 31 THERE ARE 31 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITED)  
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 NUMBER 10 OF 22 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 2002:699494 CAPLUS  
 DOCUMENT NUMBER: 131:353180  
 TITLE: Pd-Catalyzed Reaction of *o*-Benzoquinones and Aryl Acetylenes: An Unprecedented One-Pot Synthesis of Tropone Derivatives

AUTHOR(S): Mair, Vijay; Srinivasan, D.; Mair, Smitha M.; Rath, Nages P.; Srinivasan, R.  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Tiruvandur, 630019, India  
 SOURCE: Journal of Organic Chemistry (2002), 67(12), 7533-7536  
 CSDM: JOCHEM 1289 0028-3633  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE (S): CHEMREACT 137:353180  
 GI

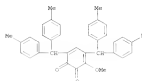


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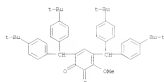


AB Highly substituted tropone deriva, e.g. 3, were obtained as a result of SnCl4-catalyzed cyclization of 3-methoxy-substituted o-benzoquinones with aryl acetylenes and subsequent rearrangement of the adducts with concomitant decarbonylation.

17 47432-24-7 CAPLUS  
 47432-24-7 CAPLUS  
 RI: RCT (Reactant); RACT (Reactant or reagent)  
 (Preparation of tropone deriva. via SnCl4-catalyzed cyclization of 3-methoxy-substituted o-benzoquinones with aryl acetylenes and subsequent rearrangement of the adducts with concomitant decarbonylation)  
 CD 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[4-(4-methylphenyl)methyl]-3-methoxy- (CA INDEX NAME)



28 47432-25-8 CAPLUS  
 CD 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[4-(4,1,2-dimethylphenyl)methyl]-3-methoxy- (CA INDEX NAME)



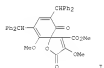
17 21205-89-5P  
 RI: RCT (Reactant); SPN [Synthetic preparation]; PREP [Preparation]; RACT (Reactant or reagent)  
 (Preparation of tropone deriva. via SnCl4-catalyzed cyclization of 3-methoxy-substituted o-benzoquinones with aryl acetylenes and subsequent rearrangement of the adducts with concomitant decarbonylation)  
 CD 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)

RI: RCT (Reactant); RACT (Reactant or reagent)  
 1,1'-dipolar cycloaddition reactions of carbonyl ylides with 1,2-diones:  
 CD 21205-89-5 CAPLUS  
 CD 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



04 CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)  
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

16 NUMBER 11 OF 22 CAPLUS COPYRIGHT 2010 ACS ON STM  
 ACCESSION NUMBER: 2010 78752 CAPLUS  
 DOCUMENT NUMBER: 13418242  
 TITLE: Triphenylphosphane-mediated addition of dimethyl acetylenedicarboxylate to 3,2- and 3,4-benzoquinones: synthesis of novel  $\gamma$ -spiroketones  
 AUTHOR(S): Nair, Vijay; Nair, V.; Somashekar, Vinod, A. V.  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CIRI), Trivandrum, 695 019, India  
 SOURCE: Synthesis (2000), (12), 1713-1718  
 CODEN: SYNSYD, ISSN: 0039-5882  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 13418242



01



04 CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)  
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

16 NUMBER 11 OF 22 CAPLUS COPYRIGHT 2010 ACS ON STM  
 ACCESSION NUMBER: 2010 79111 CAPLUS  
 DOCUMENT NUMBER: 13135228  
 TITLE: 1,3-Dipolar cycloaddition reactions of carbonyl ylides with 1,2-diones: synthesis of novel spiro oxabicycles  
 AUTHOR(S): Nair, Vijay; Sheela, K. C.; Sethunadhevan, P.; Chanya, P.; Rathi, Nigam P.  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CIRI), Trivandrum, 695 019, India  
 SOURCE: Tetrahedron (2002), 58(18), 4171-4177  
 CODEN: TETRAH, ISSN: 0040-4039  
 PUBLISHER: Elsevier Science Ltd  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 13135228  
 CI



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AB 1,3-Dipolar cycloaddition reaction of carbonyl ylides with various  $\alpha$ -quinones afforded highly oxygenated spiro oxabicycles, e.g. 1.  
 17 21205-89-5



AB The pteridonic intermediate generated by the addition of triphenylphosphane to di-Me acetylenedicarboxylate undergoes facile addition to ortho- and para-quinones to afford highly functionalized novel unsat.  $\gamma$ -spiroketones, e.g., 1, in moderate to high yields

17 21205-89-5  
 RI: RCT (Reactant); RACT (Reactant or reagent)  
 (spiroketones via triphenylphosphane-mediated cycloaddition of di-Me acetylenedicarboxylate to quinones)  
 CD 21205-89-5 CAPLUS  
 CD 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



04 CITING REF COUNT: 25 THERE ARE 25 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS)  
 REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

16 NUMBER 13 OF 22 CAPLUS COPYRIGHT 2010 ACS ON STM  
 ACCESSION NUMBER: 2000 429515 CAPLUS  
 DOCUMENT NUMBER: 131207602  
 TITLE: [4+2] Cycloaddition reactions of o-benzoquinones with styrenes: a facile synthesis of bicyclo[2.2.2]octenones  
 AUTHOR(S): Nair, Vijay; Mallabadi, Devraj; Treuss, P. M.; Rathi, Nigam P.; Sivasubramanian, S.  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CIRI), Trivandrum, 695 019, India  
 SOURCE: Synthesis (2000), (6), 850-854  
 CODEN: SYNSYD, ISSN: 0039-5882  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 131207602

AB O-Benzoquinones undergo facile Diels-Alder reaction with styrenes, resulting in a high yield synthesis of bicyclo[2.2.2]octenones. Rate acceleration of this reaction can be achieved by employing lithium salt.

17 247155-79-3  
 RI: RCT (Reactant); RACT (Reactant or reagent)  
 (Diels-Alder reaction of o-benzoquinones with styrenes)





PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01242288	A	19890927	JP 1988-71515	19880324





